SKINNER LANDFILL WORK GROUP

November 9, 2001

Scott Hanson
EPA Project Coordinator
United States Environmental Protection Agency
Region V, C-14J
77 W. Jackson Blvd.
Chicago, IL 60604

Subject: **October 2001 Progress Report**
Skinner Landfill
West Chester, Ohio

This status report for October 2001 was prepared by Earth Tech on behalf of the Skinner Landfill Group (SLG), as required by the Consent Decree entered by the United States District Court on April 2, 2001 for the Skinner Landfill in West Chester, Ohio.

October 2001 Construction Activities:

- Completed implementation of revised drainage plan components.
- Continued implementation of CQA per approved plan, as revised.
- Completed seeding of final cover and restoration of borrow areas.
- Completed drainage layout by surveyors.
- Continued sampling per Field Sampling Plan schedule.
- Continued installation of piezometers, gas probes and monitoring wells.
- Completed final grading and shaping of final cover soil.
- Continued installation of electric, instrumentation and controls for GIS.
- Continued temporary discharge to sewer from IT#2 under BCDES-approved Pre-discharge Sampling Plan.
- CQA testing performed met project specifications.

Regulatory Submittals/Approvals

- Submitted Revised Drainage Plan to USEPA (verbal approval given).
- Waiting on BCDES approval of final discharge permit to Butler County POTW.

Community Outreach Activities

On October 17, 2001 a meeting was held at the Earth Tech construction trailer. Attendees included a representative of the West Chester Fire Chief Department, Scott Hanson - US EPA, Ben Baker - Skinner Landfill Technical Committee, and several representatives from Earth Tech. The purpose of this meeting was to review site activities and progress on the implementation of the final cover and groundwater collection system. West Chester Trustee and Township officials are updated by the Fire Department on the progress of the work at the site and of any upcoming activities that have potential to impact the community.

Current Issues

- Completion of USEPA punchlist items (punchlist items are attached to the weekly CQA reports).

Field Sampling Plan Activities

Sampling events which occurred during October:

- October 15, 2001 - Surface water run-off sampled.
- October 18-20, 2001 - Developed and sampled groundwater monitoring wells except GW-06.

Sampling planned within the next six weeks is:

- Development and sampling of monitor well GW-06.

Additional details on the implementation of the Field Sampling Plan and available validated results are provided in Attachment 1.

Construction photo documentation of various site activities is on going. See Attachment 2 for selected photos showing various activities being conducted within this reporting period.

Weekly Construction Quality Assurance Reports can be found in Attachment 3.

Submittals Received

See Attachment 4 for a list of submittals received and approved by the Engineer.

Planned Activities:

Activities planned over the next six weeks include:

- Complete installation of sewer connection for groundwater interceptor trench pumping systems.
- Complete installation of fence and gates.
- Disposal of waste items present at the site.
- Continue survey of as-built conditions.
- Complete items listed on final construction punch list.
- Schedule for Final Inspection
- Continue drafting of Interim RA Report (Construction Completion).

If you have questions regarding the status of activities associated with the Site, please contact Ben Baker at (517) 636-0787.

Sincerely,

Ron Roelker, P.E.
Earth Tech

cc Ben Baker, Skinner Landfill Technical Committee
Chuck Mellon, Ohio EPA
Chuck Terwilliger, SLG Steering Committee
Michael O'Callaghan, Shumaker, Loop & Kendrick, LLP
Rick Warwick, Earth Tech

ATTACHMENTS

1. Field Sampling Plan Summary and Validated Results
2. Photo Documentation
3. Weekly CQA Reports
4. Submittal Log

ATTACHMENT I

FIELD SAMPLING PLAN SUMMARY AND VALIDATED RESULTS

SKINNER LANDFILL REMEDIAL ACTION
FIELD SAMPLING PLAN
MONTHLY REPORT

REPORTING PERIOD: October 1, 2001 through October 31, 2001

TEST CONDUCTED:

- Groundwater sampling (see table below).
- Surface water sampling (see table below).

TESTING TO BE CONDUCTED WITHIN THE NEXT SIX WEEKS:

- Sampling on newly installed groundwater monitoring well (GW-06R) (scheduled for 11/7/01).
- Ground water and piezometer gauging (scheduled for 11/12/01).

	MONTH						
MEDIA	April	May	June	July	August	September	October
soil			6/26,28/01	7/23/01	8/2,20/01		
surface water	4/17/01	5/17,18/01	6/13/01	7/27/01	8/16/01	9/20/01	10/15/01
surface water run-off	NS	5/8/01	6/1/01	7/9/01	8/13/01	9/10/01	
groundwater							10/18-20/01
biological		5/31/01				9/26/01	

NS – Not Sampled (no rainfall event of greater than 0.10")

SUMMARY OF LABORATORY ANALYTICAL RESULTS

The final laboratory analytical results of the groundwater, surface water and surface water run-off sampling events conducted in September and October, 2001 have been received, however, the results have not been validated.

The final, validated laboratory analytical results have been received for all soil sampling events. In addition, final, validated laboratory analytical results have been received for the July 9 and August 13, 2001 surface water run-off sampling events as well as the July 27 and August 16, 2001, surface water sampling events. Summary tables of the validated laboratory analytical results for each sampling event are included as attachments.

SUMMARY OF ADDITIONAL FIELD ACTIVITIES

Currently, the reinstallation of a piezometer (P-03R) and the installation of a groundwater monitoring well (GW-06R) are being conducted.

SKINNER LANDFILL REMEDIAL ACTION
FIELD SAMPLING PLAN
MONTHLY REPORT

Validated Laboratory Analytical Results Summary
Construction Surface Water
Sampling Event No: 400
Laboratory Report No: 20014652

	Sample Locations				
Constituent of Concern	SK-CSW50-400	SK-CSW51-400	SK-CSW52-400	SK-CSW53-400	**Trigger Levels**
metals					
arsenic	21.7	14.7	16.9	13.1	10.0
barium	56.1 B	58.3 B	55.2 B	46.8 B	1,000.0
copper	2.2 B	3.3 B	2.1 B	2.4 B,J	25.0
iron	29.1 B,J	248.0 J	217.0 J	54.6 B	5,000.0
lead	<1.5	1.9 B	<1.5	<1.5	4.2
nickel	1.3 B	1.7 B	1.5 B	1.1 B	96.0
selenium	5.4 J	5.0 J	6.3 J	6.5 J	5.0
silver	1.3 B	1.2 B	1.3 B	0.9 J	10.0
zinc	21.5	24	22.7	21.6	86.0
semi-volatiles					
non detected					
volatiles					
None detected					

Results reported in ug/L (parts per billion).

Samples collected on July 27, 2001.

Only constituents with concentrations above the laboratory detection limit and that are listed on the Target Compound Lists (Tables 8, 9 and 11 in the Remedial Action Field Sampling Plan, September 7, 2000) are included in the table above.

none detected - all semi-volatile and volatile constituents were detected below the laboratory detection limits, refer to the laboratory data report for a listing of the individual constituents.

B - *The analyte is greater than the Instrument Detection Limit (IDL) but less than the Contract Required Detection Limit (CRDL).*

J - The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

shaded cells - indicate analytical data that exceeds the Trigger Levels obtained from the Remedial Action Quality Assurance Project Plan, February, 2001.

SKINNER LANDFILL REMEDIAL ACTION
FIELD SAMPLING PLAN
MONTHLY REPORT

Validated Laboratory Analytical Results Summary
Construction Surface Water
Sampling Event No: 500
Laboratory Report No: 20015096

	Sample Locations				
Constituent of Concern	SK-CSW50-500	SK-CSW51-500	SK-CSW52-500	SK-CSW53-500	**Trigger Levels**
metals					
antimony	18.3 B,J	12.4 B,J	9.9 B,J	10.3 B,J	60.0
arsenic	19.2 J	13.6 J	12.4 J	9.7 B,J	10.0
barium	63.1 B	60.0 B	50.7 B	40.1 B	1,000.0
copper	2.8 B	2.6 B	2.8 B	1.9 B	25.0
cyanide	5.0 B	7.5 B	7.5 B	6.0 B	10.0
iron	49.1 B	44.4 B	607.0	38.9 B	5,000.0
nickel	1.4 B	1.5 B	2.0 B	1.4 B	96.0
zinc	2.9 B	2.7 B	5.3 B	1.2 B	86.0
semi-volatiles					
none detected					
volatiles					
none detected					

Results reported in ug/L (parts per billion).

Samples collected on August 16, 2001, 2001.

Only constituents with concentrations above the laboratory detection limit and that are listed on the Target Compound Lists (Tables 8, 9 and 11 in the Remedial Action Field Sampling Plan, September 7, 2000) are included in the table above.

none detected - all semi-volatile and volatile constituents were detected below the laboratory detection limits, refer to the laboratory data report for a listing of the individual constituents.

B - The analyte is greater than the Instrument Detection Limit (IDL) but less than the Contract Required Detection Lmit (CRDL).

J - The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

N - the analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tenative identification".

shaded cells - indicate analytical data that exceeds the Trigger Levels obtained from the Remedial Action Quality Assurance Project Plan, February, 2001.

SKINNER LANDFILL REMEDIAL ACTION
FIELD SAMPLING PLAN
MONTHLY REPORT

Validated Laboratory Analytical Results Summary
Construction Surface Water
Sampling Event No: 400
Laboratory Report No: 20014989

	Sample Locations		
Constituent of Concern	SK-SWR-03-400	SK-SWR-04-400	**Trigger Levels**
metals			
antimony	5.6 B	8.5 B	60.0
arsenic	11.6	8.5 B	10.0
barium	154 B	61.0 B	1,000.0
copper	4.1 B	3.1 B	25.0
iron	927 J,N	344 J,N	5,000.0
nickel	22.7 B	10.2 B	96.0
zinc	3.7 B	<0.9	86.0
cyanide	5.0 B	14.5	10.0
semi-volatiles			
none detected			
volatiles			
none detected			

Results reported in ug/L (parts per billion).

Samples collected on August 13, 2001.

Only constituents with concentrations above the laboratory detection limit and that are listed on the Target Compound Lists (Tables 8, 9 and 11 in the Remedial Action Field Sampling Plan, September 7, 2000) are included in the table above.

none detected - all semi-volatile and volatile constituents were detected below the laboratory detection limits, refer to the laboratory data report for a listing of the individual constituents.

B - The analyte is greater than the Instrument Detection Limit (IDL) but less than the Contract Required Detection Limit (CRDL).

J - The analyte was positively identified; the associated numerical value is the aproximate concentration of the analyte in the sample.

N - The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tenative identification".

shaded cells - indicate analytical data that exceeds the Trigger Levels obtained from the Remedial Action Quality Assurance Project Plan, February, 2001.

SKINNER LANDFILL REMEDIAL ACTION
FIELD SAMPLING PLAN
MONTHLY REPORT

Validated Laboratory Analytical Results Summary
Construction Surface Water
Sampling Event No: 300
Laboratory Report No: 20014220

	Sample Locations		
Constituent of Concern	SK-SWR-03-300	SK-SWR-04-300	**Trigger Levels**
metals			
arsenic	**22.5**	27.3	10.0
barium	**112.0 B**	170 B	100.0
beryllium	0.3 B	0.4 B	5.0
chromium	2.8 B	5.89 B	11.0
copper	6.2 B	68.1	25.0
iron	**5,530.0**	**8,380.0**	5,000.0
lead	**7.8**	**170.0**	4.2
nickel	11.6 B	25.2 B	96.0
selenium	**16.2**	20.1	5.0
zinc	35.6	**307.0**	86.0
cyanide	6.0 B	<4.0	10.0
semi-volatiles			
di-n-butylphthalate	2.06 B,J	1.82 B,J	190.0
bis (2-chloroethyl) ether	<10.0	13.2	13.6
butylbenzylphthalate	<10.0	2.25 J	10.0
bis (2-ethylhexyl) phthalate	2.10 B,J	2.02 B,J	49.0
volatiles			
benzene	<10.0	1.5 J	5.0

Results reported in ug/L (parts per billion).

Samples collected on July 9, 2001.

Only constituents with concentrations above the laboratory detection limit and that are listed on the Target Compound Lists (Tables 8, 9 and 11 in the Remedial Action Field Sampling Plan, September 7, 2000) are included in the table above.

J - The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

B - The analyte is greater than the Instrument Detection Limit (IDL) but less than the Contract Required Detection Limit (CRDL).

shaded cells - indicate analytical data that exceeds the Trigger Levels obtained from the Remedial Action Quality Assurance Project Plan, February, 2001.

ATTACHMENT 2

PHOTO DOCUMENTATION

Photo 1. Completed monitor well (GW-59).

Photo 2. Excavation for placement of drainage culvert beneath landfill access road.

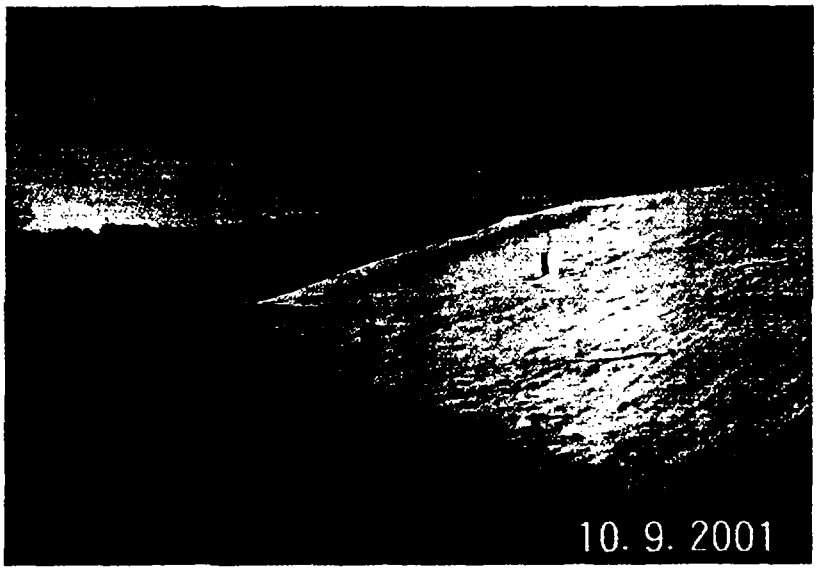

Photo 3. Placement of erosion control matting on the southeast slope.

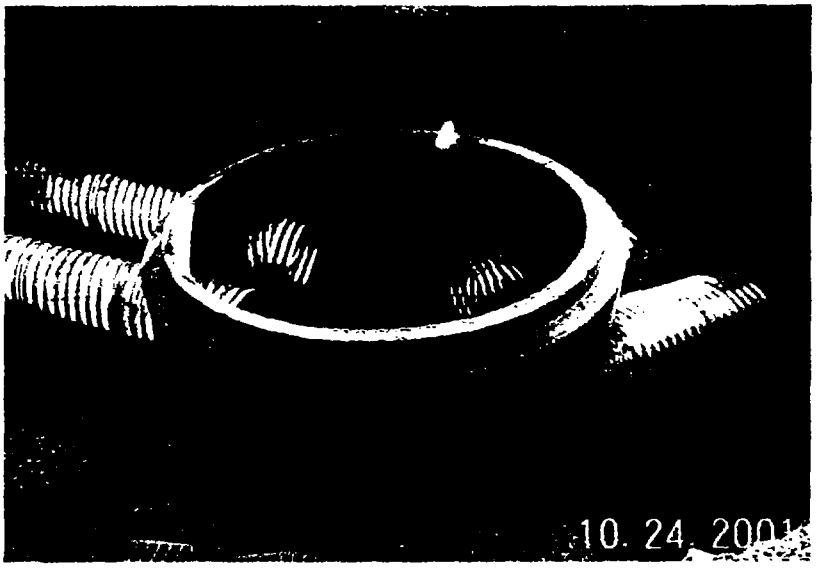

Photo 4. Manhole for twin 24-inch corrogated metal pipe culverts.

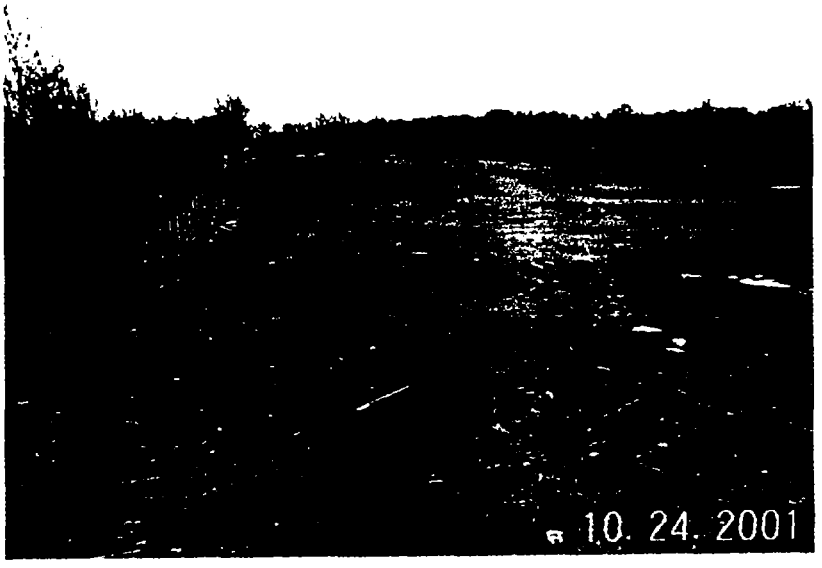

Photo 5. North lobe of landfill showing grass cover, completed piezometer and fence construction.

Photo 6. Placement of rip-rap along west drainage ditch.

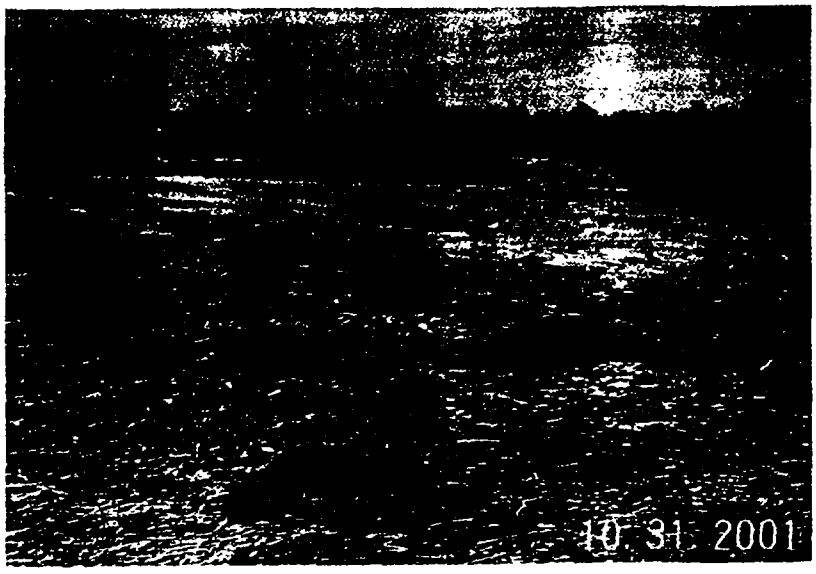

Photo 7. Photo showing established vegetative cover on landfill cap.

Photo 8. View of typical hale bale ditch check.

ATTACHMENT 3

WEEKLY CQA REPORTS

SKINNER LANDFILL REMEDIAL ACTION
CONSTRUCTION QUALITY ASSURANCE
WEEKLY PROGRESS MEETING REPORT

MEETING DATE: Tuesday, October 2, 2001

ATTENDEES: R. Roelker, J. Guenther

Current Construction Progress (work completed last week):

Completed adjusting landfill cap final grades. Completed backfilling and restoration of Area BP-1/BP-2. Began construction of drainage features. Connected control panels at extraction wells and main control panel to electric supply and pumps.

Planned Activities (for this week):

Continue drainage feature construction. Move tree pile from southeast corner to North Borrow Area. Begin hydro-seeding cap. Fence subcontractor mobilizing equipment and supplies.

Current Issues (cumulative until resolved):

CG&E needs to upgrade pole transformer.
Minor amount of shallow trash found adjacent to north side of the north lobe.
Location of Duck Pond berm.
Connection Letter to BCDES Manhole #9. (under BCDES review)
Revised drainage plan for cap (under EPA review).

Issues Resolved:

CQA Activities:

Photographs of drainage features and final grades to be conducted. Draft certification report in progress.

Other Items

Locking and labeling of wells, piezometers and gas probes to be completed this week.GIS discharge under PSP in progress (88,000 gallons discharged between 9-20-1 and 10-2-1) or about 10,000 gpd.
Seepage on west side of landfill near access road sampled 9-27-1 (testing in progress).
Pre-final inspection conducted on 9-27-1 (punchlist developed).

SKINNER LANDFILL REMEDIAL ACTION
CONSTRUCTION QUALITY ASSURANCE
WEEKLY PROGRESS MEETING REPORT

MEETING DATE: Tuesday, October 9, 2001

ATTENDEES: R. Roelker, J. Guenther

Current Construction Progress (work completed last week):

Continued drainage feature grading. Moved tree pile from southeast corner to North Borrow Area. Completed hydro-seeding cap. Completed installation of landfill access road culvert. Fence subcontractor mobilized equipment and supplies.

Planned Activities (for this week):

Begin fence construction. Grade east and west drainage swales. Restoration of north and south borrow areas. Place erosion control blanket on south slope.

Current Issues (cumulative until resolved):

CG&E needs to upgrade pole transformer.
Minor amount of shallow trash found adjacent to north side of the north lobe. (Temporarily covered)
Location of Duck Pond berm and fence at north boundary.
Connection Letter to BCDES Manhole #9. (Fee sent this week)
Revised drainage plan for cap (under EPA review-verbal approval given).

Issues Resolved:

CQA Activities:

Photographs of drainage features and punch list items in progress. Draft certification report in progress.

Other Items

GIS discharge under PSP in progress (120,000 gallons discharged between 9-20-1 and 10-8-1) or about 10,000 gpd. (14-day extension to discharge provided by BCDES on October 5, 2001)
Seepage on west side of landfill near access road sampled 9-27-1 (testing in progress).
Preliminary results on west seep show no impacts over trigger levels.
Borrow soil from north borrow area used for BP-1/BP-2 backfill tested clean.

SKINNER LANDFILL REMEDIAL ACTION
CONSTRUCTION QUALITY ASSURANCE
WEEKLY PROGRESS MEETING REPORT

MEETING DATE: Wednesday, October 17, 2001

ATTENDEES: R. Roelker, J. Guenther

Current Construction Progress (work completed last week):

Began fence construction. Graded east and west drainage swales. Continued restoration of north and south borrow areas. Placed erosion control blanket on south slope.

Planned Activities (for this week):

Place rip-rap at east and west drainage swales. Place manhole and culvert for south drainage area. Continue fence construction. Continue arranging for waste disposal.

Current Issues (cumulative until resolved):

Punchlist items (Attached).
CG&E needs to upgrade pole transformer.
Revised drainage plan for cap (under EPA review-verbal approval given).

Issues Resolved:

Minor amount of shallow trash found adjacent to north side of the north lobe to be moved off site.
Connection and discharge permit obtained from BCDES this week.
Independent party to research and locate north property boundary.
West seep water and north borrow soils analytical results received. All detections below Trigger levels.

CQA Activities:

Photographs of drainage features and punch list items in progress. Draft certification report in progress.

Other Items

GIS discharge under PSP in progress (153,000 gallons discharged between 9-20-1 and 10-16-1) or about 8,000 gpd. (Second 14-day extension to discharge requested by ET on October 17, 2001)
Sampling of monitor wells in progress.

PUNCHLIST ITEMS (as of 10-17-2001)

1. Finish Grade landfill cover.
2. Connect Interceptor Trench system to discharge manhole.
3. Drainage Controls (Scott to send letter approving design).
4. Fencing.
5. Stabilize slope above Gabion Wall.
6. Relocate Tree Pile.
7. Remove (2) AST's
8. Make pump system operational (permanent power, telephone, flow meter, and sampler).
9. Seeding and Mulching.
10. Remove Decontamination Pad.
11. Disposal of excavated soils from Area BP-1/BP-2.
12. Dispose of drums at Decontamination Pad.
13. Address Seep (pending analysis results).
14. Develop and Sample Wells.
15. Extend Piezometers on the top of the Landfill.
16. Letter to EPA excluding piezometers 13 and 14 from GWMP.
17. Remove the dead tree at the Duck Pond.
18. Remove shallow trash at north lobe.
19. Abandon P-3. Re-install P-3. Install GW-06.

Shaded items completed.

SKINNER LANDFILL REMEDIAL ACTION
CONSTRUCTION QUALITY ASSURANCE
WEEKLY PROGRESS MEETING REPORT

MEETING DATE: Wednesday, October 24, 2001

ATTENDEES: R. Roelker, J. Guenther

Current Construction Progress (work completed last week):

Placed rip-rap at east and west drainage swales. Placed manhole and south leg of culvert for south drainage area. Continued fence construction. Continued planning for waste disposal.

Planned Activities (for this week):

Construct north leg of culvert. Spread topsoil along GIS alignment. Continue construction of drainage details. Sewer manhole connection work scheduled for October 29, 2001.

Current Issues (cumulative until resolved):

Punchlist items (Attached)(Item 20 added)(30% of punchlist completed).
CG&E needs to upgrade pole transformer.
Revised drainage plan for cap (under EPA review-verbal approval given).

Issues Resolved:

CQA Activities:

Photographs of drainage features and punch list items in progress. Draft certification report in progress.

Other Items

GIS discharge under PSP in progress (190,000 gallons discharged between 9-20-1 and 10-23-1) or about 8,000 gpd. (Third 14-day extension (good to 11-1-1) approved by BCDES on October 18, 2001).
Laboratory testing of monitor well samples in progress.

PUNCHLIST ITEMS (as of 10-24-2001)

1. Finish Grade landfill cover.
2. Connect Interceptor Trench system to discharge manhole.
3. Drainage Controls (Scott to send letter approving design).
4. Fencing.
5. Stabilize slope above Gabion Wall.
6. Relocate Tree Pile.
7. Remove (2) AST's
8. Make pump system operational (permanent power, telephone, flow meter, and sampler).
9. Seeding and Mulching.
10. Remove Decontamination Pad.
11. Disposal of excavated soils from Area BP-1/BP-2.
12. Dispose of drums at Decontamination Pad.
13. Address Seep (pending analysis results).
14. Develop and Sample Wells.
15. Extend Piezometers and install covers on the top of the Landfill.
16. Letter to EPA excluding piezometers 13 and 14 from GWMP.
17. Remove the dead tree at the Duck Pond.
18. Remove shallow trash at north lobe.
19. Abandon P-3. Re-install P-3. Install GW-06.
20. Complete grading and drainage channel adjacent to duck Pond.

Shaded items completed.

SKINNER LANDFILL REMEDIAL ACTION
CONSTRUCTION QUALITY ASSURANCE
WEEKLY PROGRESS MEETING REPORT

MEETING DATE: Wednesday, October 31, 2001

ATTENDEES: R. Roelker, J. Guenther

Current Construction Progress (work completed last week):

Constructed north leg of culvert. Spread topsoil along GIS alignment. Continue construction of drainage details. Reduced work due to heavy rains.

Planned Activities (for this week):

Place topsoil at South Borrow Area. Hydroseed remainder of site. Complete sewer connection and inspection manhole. Install gabion ditch checks and silt fence ditch checks.

Current Issues (cumulative until resolved):

Punchlist items (Attached)(No new items added)(25% of punchlist completed).
CG&E needs to upgrade pole transformer.
Revised drainage plan for cap (under EPA review-verbal approval given).
Telephone service line issue.

Issues Resolved:

CQA Activities:

Photographs of drainage features and punch list items in progress. Draft certification report in progress.

Other Items

GIS discharge under PSP in progress (215,000 gallons discharged between 9-20-1 and 10-30-1) or about 7,500 gpd. (Forth 14-day extension requested on October 30, 2001 (currently permitted to 11-1-1).
Laboratory testing of monitor well samples in progress.

PUNCHLIST ITEMS (as of 10-31-2001)

1. Finish Grade landfill cover.
2. Connect Interceptor Trench system to discharge manhole.
3. Drainage Controls (Scott to send letter approving design).
4. Fencing.
5. Stabilize slope above Gabion Wall.
6. Relocate Tree Pile.
7. Remove (2) AST's
8. Make pump system operational (permanent power, telephone, flow meter, and sampler).
9. Seeding and Mulching.
10. Remove Decontamination Pad.
11. Disposal of excavated soils from Area BP-1/BP-2.
12. Dispose of drums at Decontamination Pad.
13. Address west seep.
14. Develop and Sample Wells.
15. Extend Piezometers and install covers on the top of the Landfill.
16. Letter to EPA excluding piezometers 13 and 14 from GWMP.
17. Remove the dead tree at the Duck Pond.
18. Remove shallow trash at north lobe.
19. Abandon P-3. Re-install P-3. Install GW-06.
20. Complete grading and drainage channel adjacent to duck Pond.

Shaded items completed.

ATTACHMENT 4

SUBMITTAL LOG

SUBMITTAL LOG SPECS
SKINNER LANDFILL: PROJECT # 38335

UPDATED 11/9/2001

[redacted] = Submittal approved

Submittal #	Submittal Type	Submittal Requirements	Section Number	Due Date	Date Received	Date Approved
3	Soil Bentonite Slurry Trench	Specifications and plan and layout showing location of equipment, tanks, pumps, valves, hoses and supply lines	02435 Section 3.5 Page 02435-5	5/2/2001		5/16/2001
4	Soil Bentonite Slurry Trench Submittal	Mixing Instructions, Bentonite Slurry Properties, Quality Control Plan, Waste Disposal Plan	02435 Section 3.6 Page 02435-6	5/2/2001	5/9/2001	5/29/2001
5		Specifications and plan and layout showing location of equipment, tanks, pumps, valves, hoses and supply lines. (Note this is Submittal 3 above)				5/16/2001
6		Source of supply of materials, including bentonite. Prior to use of material, it shall be accompanied by the supplier's written verification of the quality of each production of the material, a copy of which shall be		5/2/2001		5/22/2001
9		Certification of bentonite quality, showing compliance with API Standard		5/2/2001		5/22/2001

SUBMITTAL LOG SPECS
SKINNER LANDFILL: PROJECT # 38335

UPDATED 11/9/2001

							5/22/2001
	Protection of Environment	Prepare and submit to Engineer, Erosion Control Plan	01560, Section 1.05(D)				
							10/5/2001
	Site Preparation and Maintenance Plan	Prepare site preparation and maintenance plan to describe Contractor's procedure for adhering to site preparation and maintenance requirements as outlined in this section. Submit plan to contract Administrator for review and approvals.	02100, Section 1.02, page 02100-1				
44	Chain Link Fence and Gates	Product Data	02831, Section 1.03	10/11/2001	Exception		10/15/2001
							9/8/2001
	Operation and Maintenance (O&M) Data	O&M Manual	1730, Entire Section				

SUBMITTAL LOG SPECS
SKINNER LANDFILL: PROJECT # 38335

		· Required permit applications for the system			exception		
		After Construction/Prior to Final Acceptance · Compete O&M Manual · Statement that the system has been tested and complies w/specifications					
		2. Submit proposed gasket material for each service. Submit					
	Manholes, Vaults and Inlets	Include one copy of results of tests and certification reports with each shipment of materials.	02605, Section 1.02, page 02605-1				
	Force Main System	Product Data: 1. PVC pipe and fitting certification. 2. HDPE pipe and fitting certification.	02732, Section 1.02, page 02605				

SUBMITTAL LOG SPECS
SKINNER LANDFILL: PROJECT # 38335

		1. Drawing showing location of meter in pipe system.	Page 13623-1 and	exception			
		1. Manufacturer's specification for each					
		2. Standard wiring diagrams.		exception			
		1. Hydraulic calibration results including printout of actual calibration data giving indicated vs. actual flows at minimum of 3 flow rates for each meter. Identify results by serial number of each meter. 2. Submit in accordance with Section 01730.		exception			
		Shop Drawings – detail fabrication and installation of supports and anchorage for electrical items		exception			

SUBMITTAL LOG SPECS
SKINNER LANDFILL: PROJECT # 38335

		[illegible] installation and installation items are listed					
18	Geotextile Submittals	Prior to the installation of geotextile, the Supplier of the geotextiles shall provide the OWNER with the following information: 1. The origin (resin supplier's name and resin production plant) and identification (brand name and number) of the resin used to manufacture the geotextile. 2. Copies of dated quality control certificates issued by the resin supplier. 3. Reports on tests conducted by the Manufacturer to verify that resin used to manufacture the geotextile meets the Manufacturer's resin specifications.	02415, Section 1.02, page 02415-1	6/6/2001	x		
		[illegible] project meets the project specifications. [illegible] specification for the geotextile which includes properties published by the Manufacturer, measured using the appropriate [illegible] [illegible] specification are guaranteed by the Manufacturer. [illegible]	[illegible]				

SUBMITTAL LOG SPECS
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	Non-shrink Grout	SubMit Manufacturer's literature.	03604, Section 1.02, page 03604-1				
	Pre Notice to Proceed Submittals	· Key employee approval · Site Preparation and Maintenance Plan · Contractor Quality control Plan · Initial schedule · Site Security Plan · Disposal facility letters of agreements · Decontamination facility details	Section 01340, Item 1.02 (B), pg. 01340-1,				
	Prior to Work on Site Submittals	· Hazardous Environment Protection Program · Health and Safety Plan · Medical certification · H/S staff names and experience · Certification of training and course outline · Contractor's Material Handling Plan	Section 01340, Item 1.02 (C) page 01340-1,				

* = with exceptions
\+ = per CIP
= complete